AMENDMENTS TO CLAIMS

A detailed listing of all original claims, including elected and withdrawn claims, is provided below in compliance with revised 37 CFR 1.121.

- 1. (withdrawn) A protective membrane-equipped composite electrolyte for transporting ion from a first electrode to a second electrode of a pair of electrodes provided for an electrochemical cell, wherein a composite electrolyte, which includes a matrix impregnated with a liquid electrolyte, has a surface coated with a membrane composed of crosslinked polymer.
- 2. (withdrawn) The protective membrane-equipped composite electrolyte according to claim 1, wherein said liquid electrolyte is any one of phosphoric acid, sulfuric acid, and methanesulfonic acid, and said membrane is composed of a basic polymer having a structural unit of monomer of secondary amine.
- 3. (withdrawn) The protective membrane-equipped composite electrolyte according to claim 2, wherein said basic polymer is crosslinked by a crosslinking agent containing two or more isocyanate groups.
- 4. (withdrawn) The protective membrane-equipped composite electrolyte according to claim 1, wherein said matrix is composed of a polymer, and said membrane is formed by crosslinking said polymer for constructing said matrix.
- 5. (withdrawn) The protective membrane-equipped composite electrolyte according to claim 4, wherein said liquid electrolyte is any one of phosphoric acid, sulfuric acid, and methanesulfonic acid, and said membrane is composed of a basic

polymer having a structural unit of monomer of secondary amine.

- 6. (withdrawn) The protective membrane-equipped composite electrolyte according to claim 5, wherein said basic polymer is crosslinked by a crosslinking agent containing two or more isocyanate groups.
- 7. (original) A fuel cell provided with a cell unit comprising an electrolyteelectrode joined unit including a protective membrane-equipped composite electrolyte which is composed of a matrix impregnated with a liquid electrolyte and which has a surface coated with a crosslinked polymer membrane, said protective membraneequipped composite electrolyte being interposed between an anode electrode and a cathode electrode each having a gas diffusion layer and an electrode catalyst layer stacked on said gas diffusion layer.
- 8. (original) The fuel cell according to claim 7, wherein said liquid electrolyte for constructing said protective membrane-equipped composite electrolyte is any one of phosphoric acid, sulfuric acid, and methanesulfonic acid, and said membrane is composed of a basic polymer having a structural unit of monomer of secondary amine.
- 9. (original) The fuel cell according to claim 8, wherein said membrane for constructing said protective membrane-equipped composite electrolyte is formed by crosslinking said basic polymer with a crosslinking agent containing two or more isocyanate groups.
- 10. (original) The fuel cell according to claim 7, wherein said matrix for constructing said protective membrane-equipped composite electrolyte is composed of a

polymer, and said membrane is formed by crosslinking said polymer for constructing said matrix.

- 11. (original) The fuel cell according to claim 10, wherein said liquid electrolyte for constructing said protective membrane-equipped composite electrolyte is any one of phosphoric acid, sulfuric acid, and methanesulfonic acid, and said membrane is composed of a basic polymer having a structural unit of monomer of secondary amine.
- 12. (original) The fuel cell according to claim 11, wherein said membrane for constructing said protective membrane-equipped composite electrolyte is formed by crosslinking said basic polymer with a crosslinking agent containing two or more isocyanate groups.
- 13. (withdrawn) A method for producing a protective membrane-equipped composite electrolyte, comprising the steps of:

compositing a matrix and a liquid electrolyte by impregnating said matrix with said liquid electrolyte to prepare a composite electrolyte;

depositing a crosslinkable polymer onto a surface of said composite electrolyte together with a crosslinking agent; and

forming a membrane composed of crosslinked polymer by reacting said crosslinkable polymer and said crosslinking agent with each other.

14. (withdrawn) The method for producing said protective membrane-equipped composite electrolyte according to claim 13, wherein any one of phosphoric acid, sulfuric acid, and methanesulfonic acid is used as said liquid electrolyte, and a basic polymer having a structural unit of monomer of secondary amine is used as a constitutive material

for said membrane.

- 15. (withdrawn) The method for producing said protective membrane-equipped composite electrolyte according to claim 14, wherein a substance containing two or more isocyanate groups is used as said crosslinking agent.
- 16. (withdrawn) A method for producing a protective membrane-equipped composite electrolyte, comprising the steps of:

compositing a matrix and a liquid electrolyte by impregnating said matrix composed of a polymer with said liquid electrolyte to prepare a composite electrolyte; and

forming a membrane composed of crosslinked polymer on a surface of said matrix by crosslinking said polymer for constructing said matrix with a crosslinking agent.

- 17. (withdrawn) The method for producing said protective membrane-equipped composite electrolyte according to claim 16, wherein any one of phosphoric acid, sulfuric acid, and methanesulfonic acid is used as said liquid electrolyte, and a basic polymer having a structural unit of monomer of secondary amine is used as a constitutive material for said membrane.
- 18. (withdrawn) The method for producing said protective membrane-equipped composite electrolyte according to claim 17, wherein a substance containing two or more isocyanate groups is used as said crosslinking agent.